DOCKET NO.:RTS-0303

"Express Mail" Label No.: EL91891653405 Date of Deposit: 12-12-200

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: C. Frank Bennett et al.

Serial No.: Not yet assigned

Group No.: Not yet assigned

#5

Filed: herewith

For: Antisense Modulation of B-cell associated protein Expression

BOX SEQUENCE Assistant Commissioner for Patents Washington DC 20231

## INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 C.F.R. §1.56 and in accordance with 37 C.F.R. §\$1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 C.F.R. §1.56(b).

In accordance with §1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above identified application, within three months of the date of entry into the national stage of the above identified application as set forth in §1.491, or before the mailing date of a first Office Action on the merits of the above identified application, no additional fee is required.

Copies of each of the references listed on the attached Form PTO-1449 are enclosed.

Date: December 13,200/

Respectfully submitted,

Donna T. Ward

Registration No. 48,271

ISIS PHARMACEUTICALS, INC. Carlsbad Research Center 2292 Faraday Avenue Carlsbad, CA 92008

|  |          |                            | _  |                    |  |  |             |          |
|--|----------|----------------------------|--|--------------------|--|--|-------------|----------|
| Form PTO-1449 Modified                                     |          |                            |  |                    |  |  | il No.      |          |
|  |          |                            | RTS-0303   |                    |  |  |             |          |
| List of Patents and Publications                           |          |                            | Applicant<br>C. Frank Bennett et al.             |                    |  |  |             |          |
| Cited by Application                                       |          |                            | C. Frank Bennett et al.                          |                    |  |  |             |          |
| (Use several sheets if necessary)                          |          |                            | Filing Date Group                                |                    |  |  |             |          |
| U.S. Department of Commerce<br>Patent and Trademark Office |          |                            |  | Filling Date Gloup |  |  | ´ l         |          |
| Patent and   | IIau     | emaik office               |  | H                  |  |  |             |          |
| U.S. PATENT DOCUMENTS                                      |          |                            |  |                    |  |  |             |          |
|  |          |                            |  |                    |  |  |             |          |
| Examiner's   |          | Document No.               | Date   | <u> </u>           | Name   |  | Class       | Subclass |
| Initial  |          |                            | <u> </u>   |                    |  |  |             |          |
|  | AA       |                            | <del> </del>                                     |                    |  |  |             |          |
|  | AB       |                            | <b>_</b>   |                    | <del> </del>                                     |  | <del></del> |          |
|  | AC       |                            | <del>                                     </del> |                    | <del> </del>                                     |  |             |          |
|  | AD_      |                            | <del> </del>                                     |                    | <del>                                     </del> |  |             |          |
|  | AE       |                            | <del>                                     </del> |                    |  |  |             |          |
|  | AF       |                            | <del> </del>                                     |                    | <del></del>                                      |  |             |          |
| •  | AG       |                            | <del>                                     </del> |                    |  |  |             |          |
|  | AH       |                            | <del></del>                                      |                    | <del>                                     </del> |  |             |          |
| · <del></del>  | AI<br>AJ |                            |  |                    |  |  |             |          |
|  | AK       |                            | +  |                    |  |  |             |          |
|  | AL       |                            | <del>                                     </del> |                    |  |  |             |          |
|  | AM       |                            |  |                    |  |  |             |          |
|  | AN       |                            |  |                    |  |  |             |          |
|  |          |                            |  |                    |  |  |             |          |
| FOREIGN PATENT DOCUMENTS                                   |          |                            |  |                    |  |  |             |          |
| Translatio   |          |                            |  |                    |  |  | glation     |          |
| Examiner's   |          | Document No.               | Date   | 3                  | Country  |  | YES         | NO       |
| Initial  | AO       | WO 01/36674                | 5/25   | 5/2001             | PCT  |  | X           |          |
|  | AP       | WO 01/38874<br>WO 00/26232 |  | 1/2001             | PCT  |  | Х           |          |
|  | AQ       | 110 00/20232               | † <u>~/</u> *                                    | ,                  |  |  |             |          |
|  | AR       |                            |  |                    |  |  |             |          |
|  | AS       |                            |  |                    |  |  |             |          |
|  | AT       |                            |  |                    |  |  |             |          |
|  | AU       |                            |  |                    |  |  |             |          |
|  | AV       |                            |  |                    |  |  |             |          |
|  | AW       |                            |  |                    |  |  |             |          |
|  | AX       |                            |  |                    |  |  | <u> </u>    |          |
| DATE CONSIDERED  |          |                            |  |                    |  |  |             |          |
| EXAMINER   |          |                            |  | DATE               | CONSTDEKE  |  |             |          |
|  |          |                            |  |                    |  |  |             |          |

DOCKET NO.:RTS-0303

"Express Mail" Label No.: EL918916534US
Date of Deposit: 12 12 0

| Form P'         | TO-1449 Modified  | Docket No.  | Serial No.         |  |  |  |  |  |
|-----------------|---|---|--------------------|--|--|--|--|--|
|                 |   | RTS-0303  | not yet assigned   |  |  |  |  |  |
|                 |   |   | 690                |  |  |  |  |  |
| Tigt of Date    | ents and Publications                                   | Applicant   |                    |  |  |  |  |  |
|                 | by Application  | C. Frank Bennett et al.   |                    |  |  |  |  |  |
| Cited           | by Application  |   |                    |  |  |  |  |  |
| (Use several    | sheets if necessary)                                    | miliam Daha   | Group              |  |  |  |  |  |
|                 |   | Filing Date   | Group              |  |  |  |  |  |
|                 | of Commerce Patent and                                  | herewith  |                    |  |  |  |  |  |
| Trademark Offic | e   |   |                    |  |  |  |  |  |
| OTHER DOCUMENTS | (Including Author, Title,                               |   |                    |  |  |  |  |  |
| AA              | Coates et al., The                                      | Coates et al., The prohibitin family of mitochondr  |                    |  |  |  |  |  |
|                 | '  proteins regulate                                    | replicative lifesp  | an, Curr. Biol.,   |  |  |  |  |  |
|                 | 1 11997 7.607-610                                       |   |                    |  |  |  |  |  |
| AB              | . Coates et al., Mar                                    | Coates et al., Mammalian prohibitin proteins respond  |                    |  |  |  |  |  |
| TAB             | lto mitochondrial si                                    | to mitochondrial stress and decrease during cellular  |                    |  |  |  |  |  |
|                 | senescence Exp. Co                                      | senescence, Exp. Cell Res., 2001, 265:262-273   |                    |  |  |  |  |  |
|                 | Darmon et al RA   | P37 and Prohibitin  | Are Specifically   |  |  |  |  |  |
| AC              | Darmon et ar., Dri                                      | Darmon et al., BAP37 and Prohibitin Are Specifically Recognized by an SV40 T Antigen Antibody, Mol. Cell. |                    |  |  |  |  |  |
|                 | Recognized by an b                                      | Recognized by all 5/40 1 Allergell Allerbody, Mor. Cerr.  |                    |  |  |  |  |  |
|                 | BIOI. Res. Communi.                                     | Biol. Res. Commun., 2000, 4:219-223   |                    |  |  |  |  |  |
| AD              | Delage-Mourroux et                                      | Delage-Mourroux et al., Analysis of estrogen receptor   |                    |  |  |  |  |  |
|                 | interaction with a                                      | interaction with a repressor of estrogen receptor   |                    |  |  |  |  |  |
|                 | activity (REA) and                                      | activity (REA) and the regulation of estrogen receptor  |                    |  |  |  |  |  |
|                 | transcriptional ac                                      | transcriptional activity by REA, J. Biol. Chem., 2000,  |                    |  |  |  |  |  |
|                 | 275:35848-35856   | 275.35848-35856   |                    |  |  |  |  |  |
| AE              | Martini et al., P.                                      | Martini et al., Prothymosin alpha selectively enhances  |                    |  |  |  |  |  |
|                 | estrogen receptor                                       | estrogen receptor transcriptional activity by   |                    |  |  |  |  |  |
|                 | interacting with a                                      | interacting with a repressor of estrogen receptor   |                    |  |  |  |  |  |
|                 | activity, Mol. Cel                                      | Cell. Biol., <b>2000</b> , 20:6224-6232   |                    |  |  |  |  |  |
| AF              | McClung et al., P                                       | McClung et al Prohibitin: potential role in   |                    |  |  |  |  |  |
|                 | senescence, develo                                      | senescence, development, and tumor suppression, Exp.  |                    |  |  |  |  |  |
|                 | Gerontol., 1995, 3                                      | Gerontol., 1995, 30:99-124  |                    |  |  |  |  |  |
| AG              | Montano et al., A                                       | Montano et al An estrogen receptor-selective  |                    |  |  |  |  |  |
| 1               | coregulator that p                                      | coregulator that potentiates the effectiveness of   |                    |  |  |  |  |  |
|                 | lanticatrogens and represses the activity of estrogens, |   |                    |  |  |  |  |  |
|                 | Drog Natl Acad  | I Drog Natl Acad Sci II S. A., 1999, 96:694/-6954   |                    |  |  |  |  |  |
| 7.11            | Niitmans et al  | Prohibitins act as  | s a membrane-bound |  |  |  |  |  |
| AH              | changrone for the                                       | Nijtmans et al., Prohibitins act as a membrane-bound chaperone for the stabilization of mitochondrial     |                    |  |  |  |  |  |
| 1               | chaperone for the                                       | proteins, Embo J., 2000, 19:2444-2451   |                    |  |  |  |  |  |
|                 | proceins, Endo 8:,                                      | reaction of a repre   | essor of estrogen  |  |  |  |  |  |
| AI              | Simon et al., Exp                                       | Simon et al., Expression of a repressor of estrogen   |                    |  |  |  |  |  |
|                 | receptor activity                                       | receptor activity in human breast tumors: relationship  |                    |  |  |  |  |  |
| 1               | to some known prog                                      | to some known prognostic markers, Cancer Res., 2000,  |                    |  |  |  |  |  |
|                 | 60:2796-2799  |   |                    |  |  |  |  |  |
| AJ              | Terashima et al.,                                       | Terashima et al The IgM antigen receptor of B   |                    |  |  |  |  |  |
|                 | lymphocytes is associated with prohibitin and a         |   |                    |  |  |  |  |  |
| 1               | prohibitin-related protein, Embo J., 1994, 13:3782-3792 |   |                    |  |  |  |  |  |
| <del></del>     | 1.  |   |                    |  |  |  |  |  |
| EXAMINER        |   | DATE CONSIDERED   |                    |  |  |  |  |  |
| DVWMTINGK       |   |   |                    |  |  |  |  |  |